Jonathan C. Stergiou

Distinguished Engineer for Hull & Mechanical System/Ship Integration Modeling & Simulation
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Mr. Stergiou serves as the Distinguished Engineer (ST) for Hull & Mechanical System/Ship Integration Modeling and Simulation at the Naval Surface Warfare Center Carderock Division (NSWCCD) in Bethesda, MD. This position leads the development of new and improved approaches and capabilities to advance the state-of-the-art in modeling and simulation and computational mechanics related to all aspects of ship, submarine, and unmanned surface/undersea vehicle platform designs and system improvements. He was appointed to the scientific and technical cadre of senior executives in August 2019.

Mr. Stergiou has been developing modeling and simulation capabilities for the Navy since 2008, when he began his career as an engineer in the NSWCCD Hull Response and Protection branch.

Prior to his current assignment, Mr. Stergiou was the Survivability and Weapons Effects Modeling and Simulation Program Manager as well as the lead developer for the DoD High Performance Computing Modernization Program CREATE Ships Shock/Damage product. He has also served as a designated engineering manager within the NAVSEA Ship Integrity and Performance Engineering Directorate. Previous work spans the areas of ship and submarine survivability assessment, platform design, tool integration, cluster system administration, and high performance computing. He has held positions on national symposia technical advisory committees and review panels, including the DoD HPCMP Scientific Advisory Board.

Mr. Stergiou has served on inter-agency and international consortiums and is a recognized authority on physics-based modeling and simulation techniques. He participated in the multi-national forensic investigation of the 2010 sinking of the ROKS Cheonan. More recently he led development of critical technology for Navy shock trials and co-developed a unique multi-program multi-data communication protocol for multi-physics modeling and simulation. He has authored dozens of publications and conference proceedings.

Mr. Stergiou received a Master's of Science in Aerospace Engineering from the Pennsylvania State University in 2008, and a Bachelor's of Science in Aerospace Engineering from the Pennsylvania State University in 2006. He is the recipient of the 2020 ASNE Solberg Award for Research, 2017 NDIA Lt. Gen. Thomas R. Ferguson, Jr. Systems Engineering Excellence Group Award, and the 2017 NSWCCD Emory S. Land Award for Collaboration Excellence.